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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-199703

(43)Date of publication of application : 18.08.1988

(51)Int.Cl.

C08F 10/00  
C08F 4/64

(21)Application number : 62-032508

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(22)Date of filing : 17.02.1987

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## (54) POLYMERIZATION OF ALPHA-OLEFIN

### (57)Abstract:

PURPOSE: To make it possible to perform polymerization with a higher catalyst activity without detriment to the stereoregularity of the obtained polymer, by polymerizing an  $\alpha$ -olefin by using a catalyst formed by contacting a highly active solid titanium catalyst component with other catalyst components in an inert medium in the absence of any  $\alpha$ -olefin.

CONSTITUTION: An  $\alpha$ -olefin is polymerized by using a catalyst formed by contacting a highly active solid titanium catalyst component (A) essentially consisting of magnesium, titanium, a halogen and an electron donor with a catalyst component of an organometallic compound (B) of a Group IWIII metal of the periodic table, an organohalogen compound catalyst component (C) and a catalyst component (D) of an organosilicon compound or an amine of a high steric hindrance in an inert medium in the absence of any  $\alpha$ -olefin. Examples of component (C) include organohalogen compounds comprising a 1W20C hydrocarbon group and a halogen group such as chlorine, bromine, iodine or fluorine.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]